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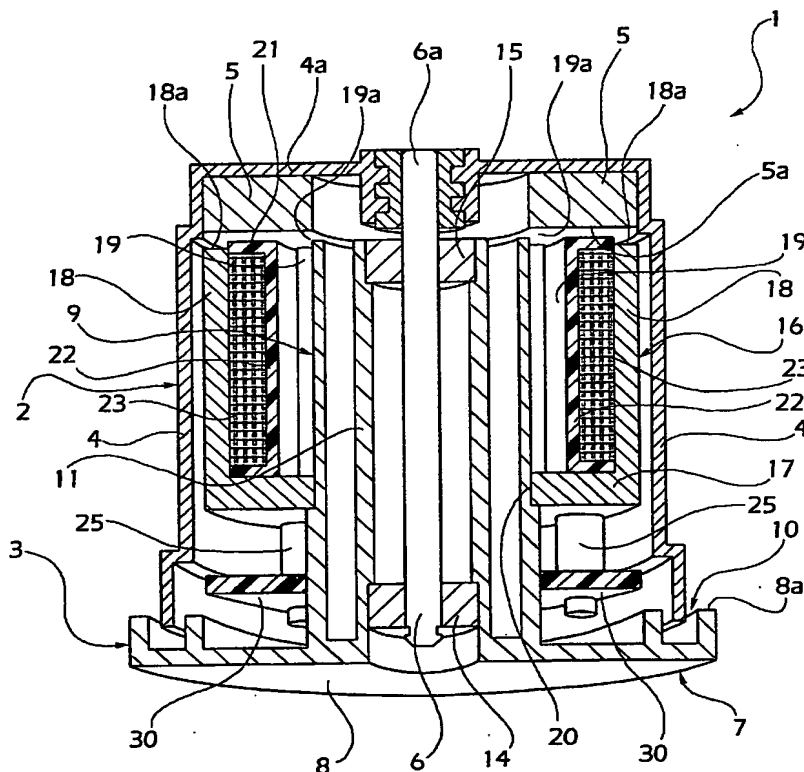
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(54) Title: ROTARY ELECTRIC MACHINE WITH PERMANENT-MAGNET ROTOR



(57) Abstract: The machine (1) comprises: a rotor (2) with a permanent magnet (5), for producing an annular distribution of magnetic polarities (N, S) of angularly alternating sign about the axis of rotation (A-A) of the rotor (2), within a magnetized surface (5) lying in a plane essentially perpendicular to said axis (A-A), and a stator (3) including: a flow-conveying structure (16) formed as one piece with a pressure-shaped mass of insulated ferromagnetic particles; this structure (16) having an annular base portion (17) from which first and second arms (18; 19) extend substantially parallel to the axis of the rotor (A-A), said arms being situated at a first and a second radial distance, respectively, from this axis (A-A) and angularly alternating with respect to each other; the ends (18a; 19a) of these first and second arms (18, 19) frontally facing said magnetized surface (5a) of the rotor (5) from which they are separated by an air-gap (21); and a winding (23) arranged coaxially with the rotor (2), in an annular region lying between the first and second arms (18; 19) of the flow-conveying structure (16).



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